On-Screen Display (OSD) Menu

Configure OSD menu options using the integrated control stick on the camera cable (see image to the right).

To use the OSD menu:

- **OPTIONAL:** Connect a test monitor to the camera's analog (yellow) BNC connector.
- Push the middle of the joystick to open the OSD menu.
- Move the joystick ↑ / ↓ to select a setting, then ← / → to change the setting value.
- Push the middle of the joystick to confirm selection.
- Arrows beside settings indicate a submenu (↵). Select the setting and push the joystick to enter.
- Select **RETURN** and push the joystick to return to the previous menu, or **EXIT** from the main menu to exit.

See the full OSD menu tree below. For detailed explanation of camera settings, see the OSD instruction manual on www.flirsecurity.com/pro.

Language		
Video Format		
Backlight↵	OFF	
	WDR↵	
	BLC↵	
	HLC↵	
DNR		
Advanced↵	Lens↵	ELC↵
		ALC↵
	Exposure↵	Brightness
		Shutter
		Sens-Up
		AGC
	White Balance↵	Auto
		ATW
		Preset
		Manual↵
	Day&Night↵	Mode
		Delay
		D➤N Level
		N➤D Level
		Smart IR
		Smart IR Level
	Image↵	Sharpness
		Color Gain
		Freeze
		Flip
		D-Zoom
		Defog
	Special↵	Black Level↵
		Privacy↵
		DP Comp↵
	Reset	
Version		
Exit		

Package Contents

- 1x 1.3MP Motorized Varifocal Lens WDR Bullet Camera
- 3x Mounting Screws
- 3x Drywall Anchors
- 1x Allen Key
- 1x Mounting Template

NOTE: 12V DC / 24V AC power supply not included.

Safety Precautions

- Use an appropriate low voltage power cable to prevent fire or electrical shock.
- Make sure to install the camera in an area that can support the camera weight.
- There are no user serviceable parts inside the camera. Please do not disassemble the camera.
- Do not clean the lens cover with an abrasive cleaning material. Please use a soft cloth to clean the lens cover.

1.3MP Motorized Varifocal Lens Bullet Camera

QUICK START GUIDE
English Version 2.0

MODEL: C237BC/ C237BCP

FLIR MPX™

IT'S ALL ON THE WEB!

VISIT
www.flirsecurity.com/pro

FLIR MPX™
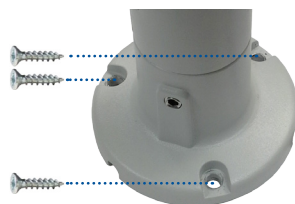
www.flirsecurity.com/pro

Installing the Camera

To install the camera:

1. Use the included mounting template to mark and drill holes for the included mounting screws.
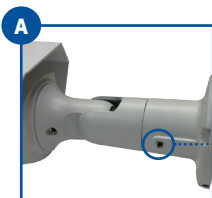
NOTE: Insert the included drywall anchors if installing into drywall.

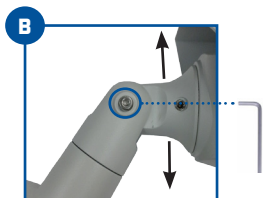2. Connect the video and power cable as detailed in the section 'Setting up the Camera'.

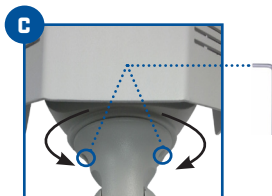3. Attach the camera base to the mouting surface using the included screws.

4. Set the position and angle of the camera using the provided Allen key.

A

A) Loosen the screw on the camera base with the Allen key to tighten / loosen the stand connection. Adjust the camera's horizontal position.

B

B) Loosen lower screw with the Allen key to adjust the camera's vertical position.

C

C) Loosen the screws on either side of the camera stand with the Allen key to rotate the camera housing. Loosen the right-side to make fine adjustments, or the left-side for broad adjustments.

5. Remove the protective film from the camera lens.

Setting up the Camera

1. Connect one of the two BNC connectors on the camera to the video cable. See "Camera Wiring" for details.

2. Connect a power source to the power terminal block. The camera supports both 12V DC and 24V AC power supplies.

NOTE: Make sure to follow correct polarity as marked on the power connector. For AC power, connect multiple cameras using consistent wiring polarity to prevent video rolling.
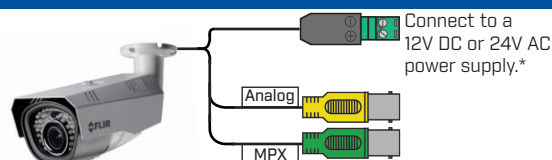
Adjusting Zoom & Focus

Hold the joystick on the camera cable ↑ / ↓ to zoom in / out. The camera will focus itself automatically.

NOTE: You can also adjust zoom and focus remotely if the camera is connected to a FLIR MPX DVR using the MPX video connector. See your MPX DVR's instruction manual for details.

Camera Wiring

Connect to a 12V DC or 24V AC power supply.*

Analog

MPX

MPX
Connect to an MPX DVR for 720p viewing / recording.

Analog
Connect to an analog DVR for 960H viewing / recording.

* Camera focus may be affected if the power connection is too long. It is recommended not to extend the power connection past 200ft (61m).

Extension Cable Options

The entire length of the cable run must be made using a single extension cable between the camera and the DVR.

Specification	Maximum Length
RG59 20AWG Conductor 95% Braid CSA/UL or C(UL) Approved	Up to 1500ft (455m)†
RG6 20AWG Conductor 95% Braid CSA/UL or C(UL) Approved	Up to 2300ft (700m)†
Analog CCTV Balun	Up to 300ft (91m)

† Long cable runs over 1000ft (300m) may be affected by electro-mechanical interference (EMI), which can increase the amount of noise in the picture in some installations.

Camera Specifications

Image Sensor	1/3" 1.3MP CMOS
Video Format	NTSC (C237BC)/PAL (C237BCP)
Effective Pixels	H: 1305 V: 1049
Resolution	Digital: 720p Analog: 960H
Scan System	Progressive
Sync System	Internal
S / N Ratio	≥ 50dB (AGC Off)
Iris	AES
AES Shutter Speed	1/60 (1/50) ~ 1/60,000 sec.
Min. Illumination	0.1 LUX (IR Off) 0 LUX (IR LEDs On)
Video Output	Digital: 720p MPX HD-CVI Analog: Composite 1.0Vpp @ 75ohm
Lens Focal Length / Type	2.8-12mm F1.4 / Varifocal
FOV (Horizontal)	Digital: 30-80° Analog: 30-80°
Termination	BNC Type
IR Range / Qty.	115ft / 35m; 42 IR LED's
Power Requirement	12V DC ± 10% 24V AC ± 10%
Power Consumption	12V DC: 750mA MAX with IR LED 24V AC: 470mA MAX with IR LED
Operating Temp. Range	–22° ~ 140°F / –30° ~ 60°C
Environmental Rating	IP66
Dimensions (W x H x D)	3.9" x 3.5" x 10.6" 99mm x 89mm x 269mm
Weight (including stand)	1.7lbs / 0.8kg

Camera Dimensions

3.5" 89mm

3.9" 99mm

10.6" 269mm